



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/155,327F

DATE: 01/21/2003 TIME: 12:26:16

Input Set : N:\Crf4\01172003\I155327G.raw

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            FAMILY OF APOPTOSIS-CONTROLLING GENES
      4 <130> FILE REFERENCE: 2096584
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/155,327F
C--> 6 <141> CURRENT FILING DATE: 1996-03-27
      7 <150> PRIOR APPLICATION NUMBER: PN8965
      8 <151> PRIOR FILING DATE: 1996-03-27
     9 <160> NUMBER OF SEQ ID NOS: 15
     10 <170> SOFTWARE: PatentIn Ver. 2.1
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38 <213> ORGANISM: Mouse

39 <220> FEATURE:

40 <221> NAME/KEY: Unsure

41 <222> LOCATION: 5

42 <223> OTHER INFORMATION: Xaa is Ile or Val

43 <400> SEQUENCE: 2

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45

33



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101	99	- 10																	
102	100		1				5	. 4		~~~	220		tat	atc	tat	gga		aac	96
103	101		ttt	gta	ggt	tat -	aag	ctg	agg	Cay	Tuc	99°	Tur	Val	Cvs	Glv	Ala	ĞÎv	
104	102		Phe	Val	Gly		Lys	Leu	Arg	GTII	ъys	Сту	ı yı	Val	O J C	30		•	
105 Pro Gly Glu Gly Pro Ala Ala Ass Pro Leu His Glin Aris Set Nation 35	103					20		~~~	~a+	~~~	25	cta	cac	caa	acc	atq	caa	gca	144
106	104		ccc	ggg	gag	ggc	cca	gca	gct	Jan	Dro	Len	His	Gln	Ala	Met	Ara	Āla	
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100 50 55 55 60 60 61 61 61 61 62 62 62 62			gct	gga	gat	gag	Dha	Gay	Thr	Ara	Phe	Ara	Ara	Thr	Phe	Ser	Asp	Leu	
109 500			Ala		Asp	GIU	Pne	Giu	1111 5 5	Arg	THE	1119	1129	60			-		
Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg 100 70 70 75 80 101				50		_4_	~~+	at a	22	cca	aac	tca	acc		caa	cqc	ttc	acc	240
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112 65 113 cag gtc tcc gac gas ctt ttt caa ggg ggc ccc aac tgg ggc cgc ctt 114 Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu 115 85 116 gta gcc ttc ttt gtc ttt ggg gct gca ctg tgt gct gag agt gtc aac 117 Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn 118 100 119 aag gag atg gaa cca ctg gtg gga caa gtg cag gag tgg atg gtc 110 110 119 aag gag atg gaa cca ctg gtg gga caa gtg cag gag tgg atg gtc 110 115 112 125 112 126 115 120 115 120 127 128 129 tac ctg gag acg cgg ctg gct gac tgg atc cac agc agt ggg ggc tgg 129 Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp 124 130 135 125 gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag agg gcg gg 126 Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg 127 145 150 150 165 150 170 181 gcc gtg gag ggg act ggg gac tag ggg gcc ttg agg aca ggg gcc ctg gag aca ggg gcc ctg gag aca ggg gcc ctg gag aca ggg gcc ctg aca ggg gcc ctg aca ggg gcc ctg gag aca ggg gcc ctg gaa aca gtg ctg aca gag gcc aca gtg ccc aca gag aca gcg gcc ctg gaa aca gtg ctg aca gcg gcc ctg gaa aca gtg cac aca gtg cac gcg aca gcg gcc ctg gaa aca gtg cac aca gcc aca gcc aca gcg cac aca gag aca gcg ctg aca cac gcc aca gcg ccc aca gca aca gcc aca g				Ala	GIn	ьeu	птэ	70	1111	110	O _T y	001	75			_		80	
114 Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Fro Ash The 9 95 95 95 95 95 95 95			65			~~~	~~~	ct t	+++	caa	aaa	aac		aac	tgg	ggc	cgc	ctt	288
115			cag	gtc	tcc	gac	Clu	Ton	Dha	Gln	Glv	Glv	Pro	Asn	Trp	Gly	Arg	Leu	
115 116			GIn	vaı	ser	ASP	QIU	пеи	1110	01.11	011	90			•	_	95		
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118			gta	gcc	Dha	Dho	y.c	Dho	61 v	Ala	Ala	Leu	Cvs	Āla	Ğlu	Ser	Val	Asn	
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122					115					120					123				
Tyr Leu Glu Thr Arg Leu Ala Asp Trp 11e H1 Ser Ser Gly Gly 126 130 135 140 125 gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gcg cgg Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg 127 145 150 155 160 128 cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg 129 Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly 130 165 170 175 131 gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc 132 Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser 133 aag tgaa 134 aag tgaa 135 Lys 137 <210> SEQ ID NO: 7 138 <211> LENGTH: 193 139 <212> TYPE: PRT 140 <213> ORGANISM: HUMAN 141 <400> SEQUENCE: 7 142 Met Ala Thr Pro Ala Ser Ala Pro Asp Thr Arg Ala Leu Val Ala Asp 143 1 5 144 Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly 145 20 25 146 Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala 147 480 188 Arg Pro Pro Arg Arg Thr Phe Ser Asp Leu			+	at a	~~~	200	caa	cta	act.	gac	taa	atc	cac	agc	agt	ggg	ggc	tgg	432
124			Tur	Lou	Glu	Thr	Ara	Len	Ala	Asp	Trp	Ile	His	Ser	Ser	Gly	Gly	Trp	
124			ıyı		Giu	1117	1119	поч	135	<u>-</u>				140					
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129				cta	caa	gag	aaa		taa	gca	tca	gtg	ago	, aca	gtg	ctg	aco	ggg	528
130 131			Ara	Len	Arc	. Glu	Glv	Asn	Trp	Āla	Ser	Val	. Arc	Thr	: Val	. Lev		. 019	
131 gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc 132 Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser 183 180 185 190 183 190 190 183 190 190 183 190							165	`				1/6)				1/-	,	
Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala File The Ala Sor 180 133			acc	ata	αca	cto	a a a c	qcc	cto	gta	act	gta	a ggg	gcc	: ttt	ttt	gct	agc	5/6
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135			aad	tαa	a														583
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143 1 5 10 10 13 144 Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly 145 20 25 30 146 Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala 147 35 40 45 147			Met	: Ala	Th:	r Pro	o Ala	a Se	c Ala	a Pro	o Asj	p Th:	r Ar	g Ala	a Lei	ı Va.	1 AI	a Asp	
Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly 25 30 145 Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala 40 45 147 35 Ala Gly Tyr Val Cys Gly Ala Gly 40 45 147			1	II.				5				Τ,	U					J	
145 20 25 30 146 Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala 40 45 147 35 20 40 45 Arg Arg Thr Phe Ser Asp Leu			Phe	e Val	L Gl	у Ту:	r Ly	s Le	Ar،	g Glı	n Ly:	s Gl	у Ту	r Va	т СУ:	s GI	y Al	а сту	
146 Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gin Ala Met Arg Ard 45 147 35 40 45 147 Arg Pho Arg Arg Thr Phe Ser Asp Leu						2	Λ				2	5				ر	U		
147 35 40 47 Arg Phe Arg Arg Thr Phe Ser Asp Leu			Pro	Gly	y Gl	u Gl	y Pr	o Al	a Al	a Asj	p Pr	o Le	u Hi	s Gl:	n Al	a Me	t Ar	у ята	
al bl. al. mbs les bba ard ard lot rue bell able					3	5				4 !	()				4	J			
			Ala	a Gl	y As	p Gl	u Ph	e Gl	u Th	r Ar	g Ph	e Ar	g Ar	g Th	r Pn	е ъе	L AS	ь теп	



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184				35					40)				4.5)			102
185		act	gga	gac	gag	ttt	gag	acc	cgt	tto	cgo	c cg	caco	tto	tc1	gac	ctg	192
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100												7	5				00	
190		60	:				70											
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226	Ala Gi		Giu	LIIC	010	55	9		_	_	60					
227	Ala Al	0 - Clm	T 011	Шic	Wal	Thr	Pro	Glv	Ser	Ala	Glr	Gln	Arg	Phe	Thr	
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233			100		_		01 .	100) . 1707	C1,	n Acr	Trr			Ala	
234	Lys Gl	u Met	Glu	Pro	Leu	ı vaı	. GI)	/ G11	ı val	F GT1	I VSF	125	;			
235		115					120) 	. Tl.	. 114	. 501			, G1s	7 Trp	
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238	Ala Gl	u Phe	Thr	Ala	Let	і Туі	: Gl	/ Asr	o GL	y Al	а ге	1 GI	ן פדר	i Alc	160	
239	7 4 5				150	1				13	-				100	
240	Arg Le	u Arc	, Glu	Gly	/ Asr	n Trp	Ala	a Sei	r Val	l Ar	g Th:	r Va.	r re	ı Tnı	- GTA	
241				165	Ξ.				1//	U					,	
242	Ala Va	l Ala	Leu	Gly	, Ala	a Lei	ı Val	l Thi	r Va	l Gl	y Al	a Phe	e Phe	e Ala	a Ser	
243			180) -				185	õ				190	IJ		
244	Lys															
246 <210		NO:	10													
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/155,327F DATE: 01/21/2003 TIME: 12:26:17

Input Set : N:\Crf4\01172003\I155327G.raw Output Set: N:\CRF4\01212003\I155327F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 16,19,22,25

Seq#:2; Xaa Pos. 5

Seq#:3; N Pos. 14,17,20

Seq#:4; Xaa Pos. 4,5



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/155,327F

DATE: 01/21/2003 TIME: 12:26:17

Input Set : N:\Crf4\01172003\I155327G.raw
Output Set: N:\CRF4\01212003\I155327F.raw

L:5 M:270 C: Current Application Number differs, Wrong Format

L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0 L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0